

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having~~grace with~~ an outer diameter of 65 mm or less and a double rows of outer raceways formed on
an~~around its~~ inner circumferential surface thereof;

an inner ring having~~a race that has~~ double rows of inner raceways formed on an~~around its~~ outer circumferential surface thereof;

a plurality of balls each~~with a diameter of 4~~ mm or less in diameter, and each retained by a retainer that are
located between each of the outer raceways and inner
raceways such that they roll freely; and

~~a retainer that holds the balls such that they roll freely;~~

~~and seal rings that seal the openings on both ends of~~
an~~the~~ internal space between the inner circumferential surface of the outer ring and the outer circumferential

surface of the inner ring where the plurality of balls are disposed~~located~~;

~~and wherein an axia~~la width of the bearing does not exceed~~in the axial direction is 45% or less than that of~~
~~an~~the inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein a ~~portion near an inner circumference of each~~the respective seal rings near an inner circumference thereof and a corresponding axial~~both end surfaces in the axial direction of the inner ring overlap when viewed from the axial direction, so that a width in a~~the radial direction of an overlap section is at least 25% o~~er more than a diameter of one of the plurality of~~the respective balls;

and wherein each seal ring includes~~of~~ a plurality of protrusions ~~that are formed all around a circumference~~circumferentially on an inside surface at a portion near an inner circumference of the seal ring such that~~respective seal rings,~~ a tip edge of at least one of the plurality of protrusions comes in sliding contact with the corresponding axial ~~end surfaces in the axial direction of the inner ring.~~

2. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having~~race with~~ an outer diameter of 65 mm or less and a double rows of outer raceways formed on
an around its inner circumferential surface thereof;

an inner ring having ~~a race that has~~ double rows of ~~inner raceways~~ formed on an around its outer circumferential surface thereof;

a plurality of balls each with a diameter of 4 mm or less in diameter, and each retained by a retainer that are
located between each of the outer raceways and inner raceways such that they roll freely; and

~~a retainer that holds the balls such that they roll freely;~~

~~and seal rings that seal the openings on both ends of~~
an the internal space between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring where the plurality of balls are disposed~~located~~;

~~and wherein~~ an axial width of the bearing does not exceed in the axial direction is 45% ~~or less than that of~~
an the inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer

ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein a portion ~~near an inner circumference~~ of ~~each the respective~~ seal rings near an inner circumference thereof and a corresponding axial ~~both end surfaces in the~~ axial direction of the inner ring overlap when viewed from the axial direction, so that a width in ~~at the~~ radial direction of an overlap section is at least 25% ~~of or more than~~ a diameter of one of the plurality of the ~~respective~~ balls;

and wherein each seal ring ~~includes~~ ~~of~~ one or more protrusions that ~~are formed all around a~~ ~~circumference~~ circumferentially on an inside ~~a side~~ surface at a portion near an inner circumference such that ~~of the~~ ~~respective seal rings,~~ a tip edge of at least one of the protrusions comes in sliding contact with a part of the surface of the inner ring all the way around the ~~circumference with a part of the surface of the inner ring;~~

and wherein each seal ring ~~includes~~ ~~the other~~ portions not in sliding contact with the inner ring near the inner circumference of the respective seal rings, said portions disposed ~~that are not the protrusions being in sliding~~ ~~contact, comes close to and~~ facing a portion ~~faces the other~~

~~part~~ of the surface of the inner ring not in sliding contact
with the protrusions, so that labyrinth seals are formed.

3. (currently amended) A pulley support double row
ball bearing comprising:

an outer ring having~~race with~~ an outer diameter of 65
mm or less and a double rows of outer raceways formed on
an around its inner circumferential surface thereof;

an inner ring having ~~a race that has~~ double rows of
~~inner raceways~~ formed on an around its outer circumferential
surface thereof;

a plurality of balls each with a diameter of 4 mm or
less in diameter, and each retained by a retainer that are
~~located between each of the outer raceways and inner~~
raceways such that they roll freely; and

~~a retainer that holds the balls such that they roll~~
~~freely;~~

~~and seal rings that seal the openings on both ends of~~
an the internal space between the inner circumferential
surface of the outer ring and the outer circumferential
surface of the inner ring where the plurality of balls are
disposed~~located~~;

~~and wherein an axial~~ width of the bearing does not
exceed in the axial direction is 45% ~~or less than that of~~

~~an~~the inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein each ~~the~~ seal rings comprises an elastic material having a Shore hardness of 60 to 80 and reinforced by a metal core, and the width in ~~a~~the radial direction of a deformed section of the elastic material that protrudes inward in the radial direction from ~~an~~the inner edge of the metal core is 40% or more than the diameter of one of the plurality of~~the respective~~ balls, and ~~a~~the thickness of ~~a~~the thinnest area of ~~this~~the deformed section, which is located in ~~a~~the middle in the radial direction of ~~this~~the deformed section, is 0.4 mm or more.

4. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having~~race with~~ an outer diameter of 65 mm or less and a ~~double rows of outer~~ raceways formed on ~~an~~around its inner circumferential surface thereof;

an inner ring having ~~a race that has~~ double rows ~~of inner~~ raceways formed on ~~an~~around its outer circumferential surface thereof;

a plurality of balls each with a diameter of 4 mm or less in diameter, and each retained by a retainer that are located between each of the outer raceways and inner raceways such that they roll freely; and

~~a retainer that holds the balls such that they roll freely;~~

~~and seal rings that seal the openings on both ends of~~
the internal space between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring where the plurality of balls are disposed~~located~~;

~~and wherein an axial~~ width of the bearing does not exceed~~in the axial direction is 45% or less than that of~~
the inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein each~~the~~ seal rings comprises an elastic material ~~that is~~ reinforced by a metal core, and an inner diameter of ~~this~~the metal core is less than an outer diameter of the inner ring.

5. (currently amended) A pulley support double row ball bearing comprising:

an outer ring having~~race~~ with an outer diameter of 65 mm or less and a double rows of outer raceways formed on
an around its inner circumferential surface thereof;

an inner ring having~~race~~ that has double rows of ~~inner raceways formed on an around its~~ outer circumferential surface thereof;

a plurality of balls each~~with a diameter of~~ 4 mm or less in diameter, and each retained by a retainer that are
~~located~~ between each of the outer raceways and inner raceways such that they roll freely; and

~~a retainer that holds the balls such that they roll freely;~~

~~and seal rings that seal the openings on both ends of~~
an~~the~~ internal space between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring where the plurality of balls are
disposed~~located;~~

~~and wherein an~~ axial width of the bearing does not
exceed~~in the axial direction is 45% or less than that of~~
an~~the~~ inner diameter of the inner ring, and by fitting the inner ring around a support member and fitting the outer ring inside a pulley, the pulley is supported such that it rotates freely around the support member;

and wherein ~~each~~the seal rings comprises an elastic material ~~that is~~reinforced by a metal core, and a position in ~~an~~the axial direction of ~~a~~the center of gravity of ~~a~~the deformed section of the elastic material that protrudes inward in ~~a~~the radial direction from ~~an~~the inner edge of the metal core is located more adjacent to ~~a~~the side where the tip edge of the seal ring and part of the surface of the inner ring come intoof the sliding contact, ~~between the tip edge of the seal ring and part of the surface of the inner ring~~ than the position of the center of deformation of ~~the~~this deformed section.